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Subject ⇒ Ajax

IN PREVIOUS LECTURE (QUICK RECAP) Date-21/10/2020	In Today's Lecture (Overview)
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AJAX Introduction

AJAX is a developer's dream, because you can:

- Update a web page without reloading the page
- Request data from a server - after the page has loaded
- Receive data from a server - after the page has loaded
- Send data to a server - in the background

AJAX is not a programming language.

AJAX is a technique for accessing web servers from a web page.

AJAX stands for Asynchronous JavaScript And XML.

AJAX Example Explained

HTML Page

```
<!DOCTYPE html>

<html>

<body>

<div id="demo">

    <h2>Let AJAX change this text</h2>

    <button type="button" onclick="loadDoc()">Change Content</button>

</div>

</body>

</html>
```

The HTML page contains a <div> section and a <button>.

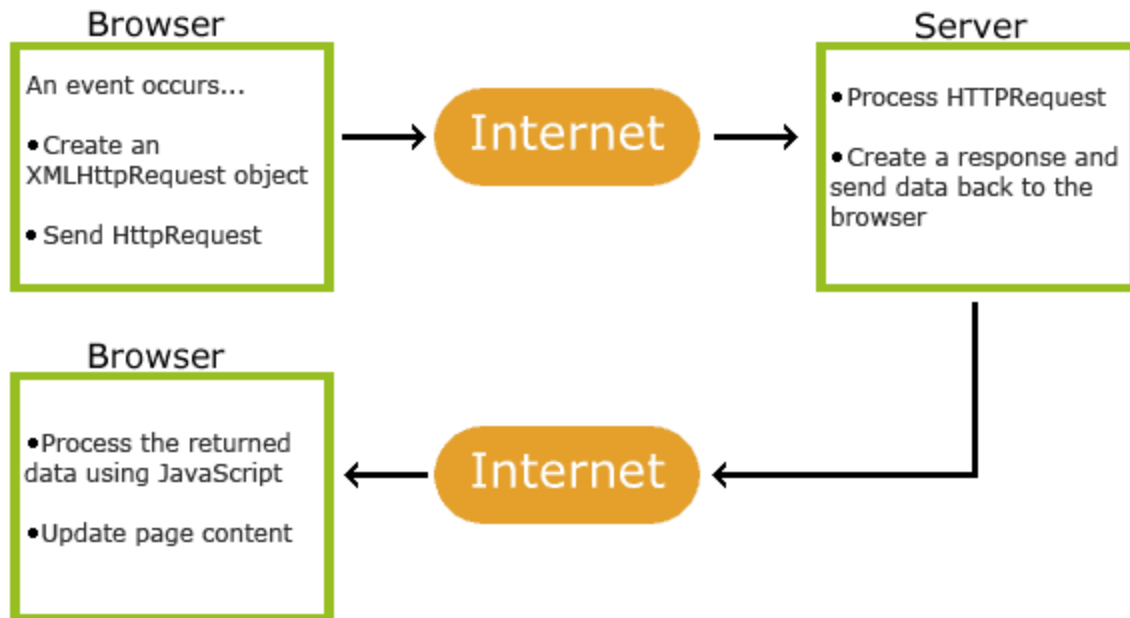
The <div> section is used to display information from a server.

The <button> calls a function (if it is clicked).

The function requests data from a web server and displays it:

1. An event occurs in a web page (the page is loaded, a button is clicked)
2. An XMLHttpRequest object is created by JavaScript

3. The XMLHttpRequest object sends a request to a web server
 4. The server processes the request
 5. The server sends a response back to the web page
 6. The response is read by JavaScript
 7. Proper action (like page update) is performed by JavaScript
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jQuery ajax() Method

Example

Change the text of a <div> element using an AJAX request:

```
$("button").click(function(){
    $.ajax({url: "demo_test.txt", success: function(result){
        $("#div1").html(result);
    }});
});
```

Definition and Usage

The ajax() method is used to perform an AJAX (asynchronous HTTP) request.

All jQuery AJAX methods use the `ajax()` method. This method is mostly used for requests where the other methods cannot be used.

Syntax

```
$.ajax({name:value, name:value, ... })
```

The parameters specify one or more name/value pairs for the AJAX request.

Possible names/values in the table below:

Name	Value/Description
<code>async</code>	A Boolean value indicating whether the request should be handled asynchronous or not. Default is <code>true</code>
<code>beforeSend(xhr)</code>	A function to run before the request is sent
<code>cache</code>	A Boolean value indicating whether the browser should cache the requested pages. Default is <code>true</code>
<code>complete(xhr,status)</code>	A function to run when the request is finished (after success and error functions)
<code>contentType</code>	The content type used when sending data to the server. Default is: "application/x-www-form-urlencoded"

context	Specifies the "this" value for all AJAX related callback functions
data	Specifies data to be sent to the server
dataFilter(<i>data,type</i>)	A function used to handle the raw response data of the XMLHttpRequest
dataType	The data type expected of the server response.
error(<i>xhr,status,error</i>)	A function to run if the request fails.
global	A Boolean value specifying whether or not to trigger global AJAX event handles for the request. Default is true
ifModified	A Boolean value specifying whether a request is only successful if the response has changed since the last request. Default is: false.
jsonp	A string overriding the callback function in a jsonp request

jsonpCallback	Specifies a name for the callback function in a jsonp request
password	Specifies a password to be used in an HTTP access authentication request.
processData	A Boolean value specifying whether or not data sent with the request should be transformed into a query string. Default is true
scriptCharset	Specifies the charset for the request
success(<i>result,status</i> <i>,xhr</i>)	A function to be run when the request succeeds
timeout	The local timeout (in milliseconds) for the request
traditional	A Boolean value specifying whether or not to use the traditional style of param serialization
type	Specifies the type of request. (GET or POST)
url	Specifies the URL to send the request to. Default is the current page

username	Specifies a username to be used in an HTTP access authentication request
xhr	A function used for creating the XMLHttpRequest object

Questions For Self Practice // Assignment/ CC For the Day

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